# RJS-SLC

OLED PUSH BUTTON SWITCH

## Feature

- I2C interface
- 0.42” High resolution OLED display
- Mechanical push button switch
- Smooth and Silent operation
- Switch Long operating Life
- OLED module keycap available for replace

## Application

- Industrial equipment
- Pro-Audio & Pro-Video
- Machine tool
- Medical equipment
- Robot
- Transportation
- 3C
- High-end Technology

## General Description

Combination mechanical button switch and OLED display.
Control OLED display through I2C protocol interface.

### SWITCH

| | |
|---|---|
| Current Rating | :100mA |
| Voltage Rating | :12VDC |
| Contact Resistance | :100m Ohm (initial) |
| Insulation Resistance | :100M Ohm Min. |
| Operating Force | :200gf ± 50gf |
| Total Travel | :4.5mm ± 0.50mm |
| Mechanical Life | :5,000,000 cycles Min. |
| Function | :Momentary(SPST) |
| Solder Specifications | :260 °C for 3 seconds |
| Operating Temperature | :-40°C ~ +80 °C |

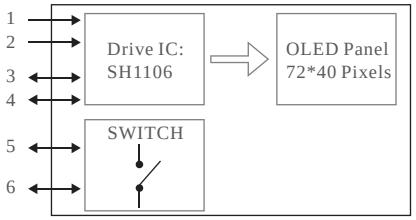
### OLED

| | |
|---|---|
| Oled type | :White & Black |
| Driver IC | :SH1106 |
| Interface | :I2C |
| Drive duty | :1/40 duty |
| Display Format | :72*40 Pixels |
| Input voltage | :3.3V |
| Active Area | :9.2(W)mm*5.2(H)mm |
| Dot Size | :0.108(W)mm*0.11(H)mm |
| Dot Pitch | :0.128(W)mm*0.13(H)mm |
| Life time (450cd/m²) | :1,500 hour |

### MATERIALS

| | |
|---|---|
| Cap | :Acrylonitrile Butadine Styrene (ABS) |
| Lens | :Polycarbonate (PC) |
| Reflector | :Polyoxymethylen (POM) |
| Base | :Polyamide (PA) |
| Moving contact | :Phosphor Bronze with gold plating |
| Terminal | :Brass with gold plating |
| Spring | :SUS |

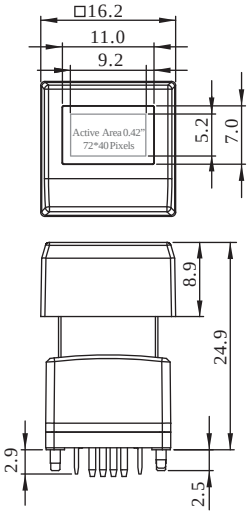
## Contact configuration

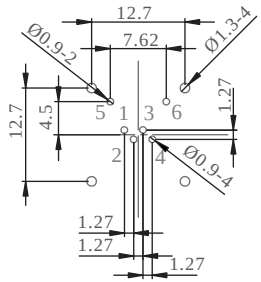



| Pin | Name | Function | Level |
|---|---|---|---|
| 1 | GND | Ground for System. | 0V |
| 2 | VDD | Power Supply for System | 3.3V |
| 3 | SCL | I2C bus clock signal | H/L |
| 4 | SDA | I2C bus data signal | H/L |
| 5 | SW COM. | Switch Common | |
| 6 | SW NO. | Switch Normal Open | |

## Dimension

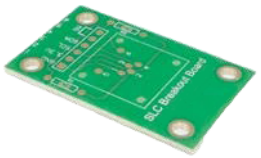
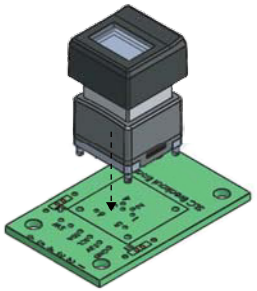
P/N : SLC1TACY5




PCB. layout

## Option



Adapter: YPC073